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Datasheet

Compatt Mk4 EHF (Discontinued)

Description

The COMPuting and Telemetering Transponder (Compatt) is a microcomputer controlled subsea transponder used for acoustic navigation and positioning. The EHF system is suitable to a wide range of tasks such as underwater measurement, remote control and monitoring.

The Type 7801 Compatt Mk4 is the Extra High Frequency (50-110 kHz) version of Sonardyne's fourth generation family of transponders built to complement the existing range of Long Baseline products. Its lightweight design permits easy subsea installation and removal by divers and ROVs making it an ideal tool for use in spoolpiece measurement applications.

Key Features

- Sequential mode operation with twelve individual channel frequencies
- Simultaneous receiver card for high speed positional updates fitted as standard
- Unique addresses allow up to 768
 Compatts to be used in close proximity
- Programmable address codes
- Conventional Enable and Disable commands for normal transponder operation
- Advanced telemetry facility replies to all commands with Compatt address, confirmation of command executed and error-checking

- Direct measurement of baselines between Compatts greatly improves array calibration accuracy
- Baseline measurement 20 mm
- Temperature and depth measurements allow sea-bed sound velocity evaluation
- Battery check records remaining battery capacity and time since last charge
- Remote status Monitory
- Cycle mode permits up to eight preset commands to be executed on receipt of one command
- Internal tilt sensor ±45°
- Battery count auto-disable at 90% battery pack usage.

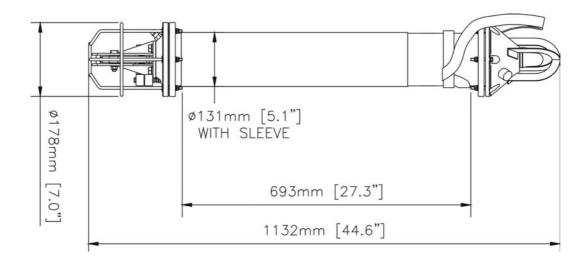


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Specifications

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Feature	Type 7801
Depth Rating	2,500 Metres
Operating Frequency	EHF (50-110kHz)
Transducer Beamshape	Omni-Directional
Maximum Acoustic Range	1Km
Relative Positioning Accuracy	0.02-0.15m
Transmit Source level (dB re 1µPa @1m)	190dB
Receive Threshold (dB re 1µPa)	90 - 125dB
Quiescent Life	1071 days (Alkaline)
	1786 days (Lithium)
	89 days (Ni-Cad)
Dimensions (LxDia)	1132mm x 178mm
Weight in Air	24.1kg
Weight in Water	11.2kg
Endcap Sensors (Fitted as Standard)	Temperature (PRT), Tilt switch (±30-45°), Depth (Strain Gauge Pressure
	transducer), Conductivity, Power for external sensors

